

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 11033796
PUBLICATION DATE : 09-02-99

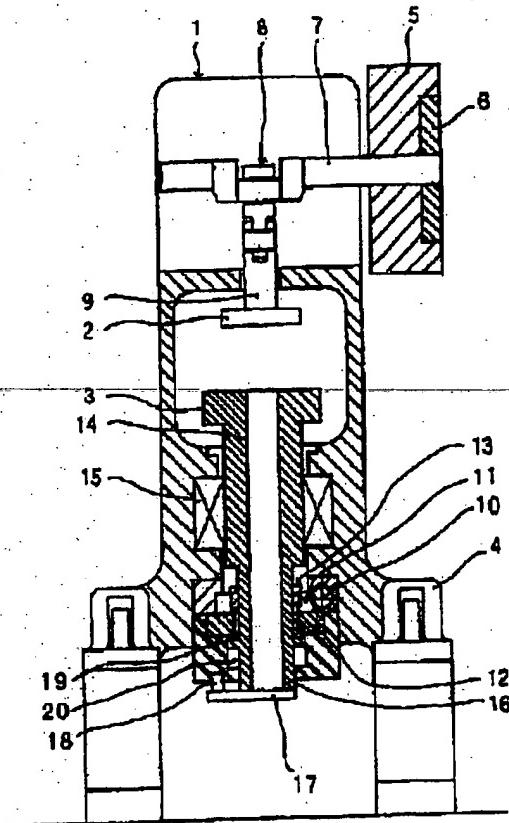
APPLICATION DATE : 09-07-97
APPLICATION NUMBER : 09199417

APPLICANT : AIDA ENG LTD;

INVENTOR : ENDO KENICHI;

INT.CL. : B30B 15/06

TITLE : DIE HEIGHT ADJUSTING DEVICE OF
PRESS MACHINE



ABSTRACT : PROBLEM TO BE SOLVED: To heighten the rigidity of the press machine by building the die height adjusting device in a bed part. A means for energizing a guide rod upward and downward is installed at a bolster of the press; and a means for locking the guide rod and a means for lowering the guide rod at a given volume are also installed.

SOLUTION: The bottom end face of a sleeve 13 is set at the same or a little higher than that of a nut 12 by rotating the sleeve 13. The pressure oil is supplied to a bottom oil pressure room part 20, and a piston 16 is closely touched to the bottom end face of the nut 12. The bottom end face of the sleeve 13 is touched to the upper face of the piston 16 by rotating the sleeve 13. Under this condition, the bolster is at the upper limit of the original position, so the die height is minimum. To heighten the die height, the lock of a lock cylinder 15 is released, and the piston 16 is pushed down by rotating the sleeve 13. The die height is set to a desired value according to the rotation angle of a worm shaft 10, and a guide rod 14 is locked by the lock cylinder 15. Thus, the rigidity of the whole press machine is improved.

COPYRIGHT: (C)1999,JPO

AP